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PPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/777,147	777,147 02/13/2004		Joo-hwan Noh	102-1010	4049	
38209	7590	12/07/2005		EXAMINER		
STANZION		-	WALSH,	WALSH, RYAN D		
919 18TH ST SUITE 440	TREET, N	I.W.	ART UNIT	PAPER NUMBER		
WASHINGT	TON, DC	20006	2852			
				DATE MAILED: 12/07/2005	DATE MAILED: 12/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)					
	10/777,147		NOH, JOO-HWAN						
Office Action	Examiner		Art Unit						
		Ryan D. Wals	sh	2852					
The MAILING DATE Period for Reply	of this communication app	pears on the co	over sheet with the c	orrespondence ad	ldress				
after SIX (6) MONTHS from the ma If NO period for reply is specified at Failure to reply within the set or ext	, FROM THE MAILING DA e under the provisions of 37 CFR 1.13 illing date of this communication. bove, the maximum statutory period wended period for reply will, by statute, er than three months after the mailing	ATE OF THIS 36(a). In no event, will apply and will ex , cause the applicat	COMMUNICATION however, may a reply be tin pire SIX (6) MONTHS from on to become ABANDONE	N. hely filed the mailing date of this c D (35 U.S.C. § 133).					
Status									
1) Responsive to comm	nunication(s) filed on 17 No	ovember 200!	5						
2a) ☐ This action is FINAL		action is non-			•				
<u>'=</u>	,—								
• —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	·								
· _	pending in the application								
• • • • • • • • • • • • • • • • • • • •	Claim(s) <u>1-27</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.								
<u> </u>	Claim(s) is/are allowed.								
· <u> </u>	Claim(s) is/are railowed. Claim(s) <u>1-27</u> is/are rejected.								
	subject to restriction and/o	r election real	uirement						
o)a,o		. 0.001.017.704							
Application Papers									
9) The specification is o	bjected to by the Examine	РГ.							
10) ☐ The drawing(s) filed o	on is/are: a)□ acco	epted or b)	objected to by the	Examiner.					
Applicant may not requ	est that any objection to the	drawing(s) be h	eld in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing	sheet(s) including the correct	tion is required	f the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).				
11) ☐ The oath or declaration	on is objected to by the Ex	raminer. Note	the attached Office	Action or form P1	ΓO - 152.				
Priority under 35 U.S.C. § 119	9								
12) Acknowledgment is m a) All b) Some * €	c) None of:)-(d) or (f).					
<u> </u>	1. Certified copies of the priority documents have been received.								
-	s of the priority documents		* *		0.				
·	certified copies of the prior	-		ed in this National	Stage				
• •	m the International Bureau	•		. al					
See the attached deta	iled Office action for a list	of the certified	copies not receive	ea.					
Attachment(s)									
Notice of References Cited (PT)	O-892)	4)	☐ Interview Summary	(PTO-413)					
2) Dotice of Draftsperson's Patent	Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate	2.450)				
 Information Disclosure Stateme Paper No(s)/Mail Date 	nt(s) (PTO-1449 or PTO/SB/08)		Notice of Informal F Other:	ratent Application (PTC	J-152)				

Application/Control Number: 10/777,147

Art Unit: 2852

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 11-16, and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi (US Pat. # 5,845,177) in view of Moriya et al. (US Pat. # 6,571,060).

Claims 7-10, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi (US Pat. # 5,845,177) and Moriya et al. (US Pat. # 6,571,060) as applied to claims 1 and 11, and in further view of Hattori (US Pat. # 6,381,432).

Claims 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hattori (US Pat. # 6,381,432) in view of Moriya et al. (US Pat. # 6,571,060).

Regarding claims 1-27, please refer to the previous rejections contained in the office action dated August 17, 2005.

Response to Arguments

Applicant's arguments filed November 17th, 2005 have been fully considered but they are not persuasive.

In response to applicant's argument that Moriya et al. is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant

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was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Moriya et al. is considered to be analogous art for the following reasons: Applicant claims, "the first passive roller gear is made of a material having a lower hardness than the drum gear to absorb impulses due to a pitch error from gear teeth of the drum gear and the first passive roller gear." Moriya et al. teach, a plurality of gears, constituted by using, at least one of, polyester, polyamide, and polyacetals. The plurality of gears having a low bending elastic modulus to reduce the noise generated at the gearmeshing portion without compromising the durability of the gears (see Abstract).

To reduce the noise generated by the gears, the amount of vibration is being reduced, which is the same particular problem addressed in the present application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan D. Walsh whose telephone number is 571-272-2726. The examiner can normally be reached on M-F 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 571-272-2136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan D. Walsh Patent Examiner Art Unit 2852

DAVID M. GRAY PRIMARY EXAMINEP